FIG. 1

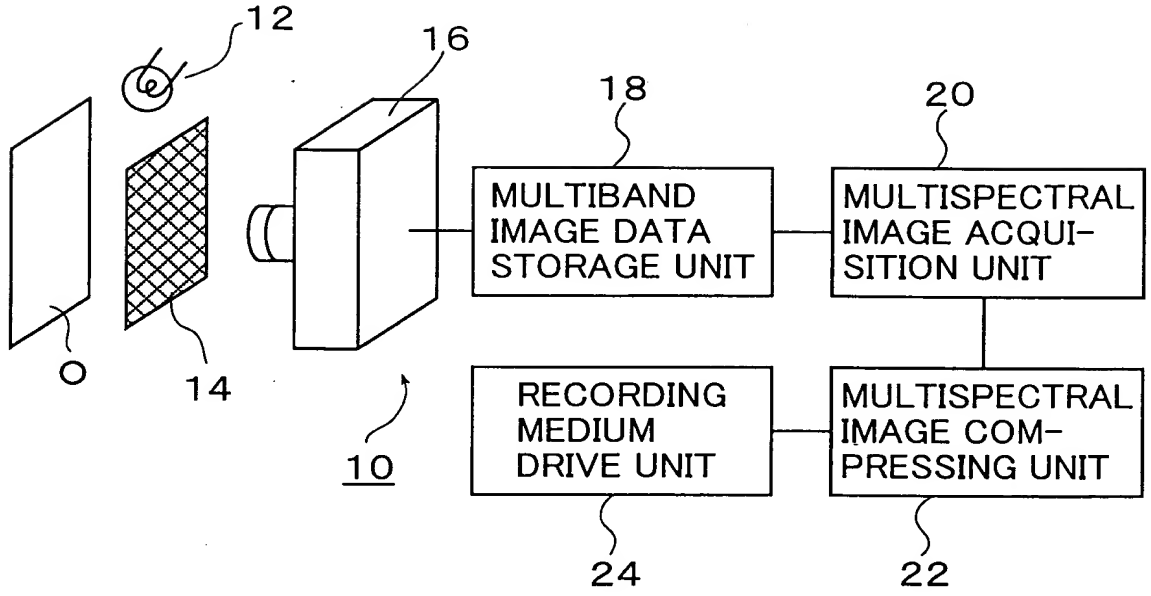

12
16
18
20
MULTIBAND IMAGE DATA STORAGE UNIT
MULTISPECTRAL IMAGE ACQUISITION UNIT
O
14
10
RECORDING MEDIUM DRIVE UNIT
MULTISPECTRAL IMAGE COMPRESSING UNIT
24
22

FIG. 2

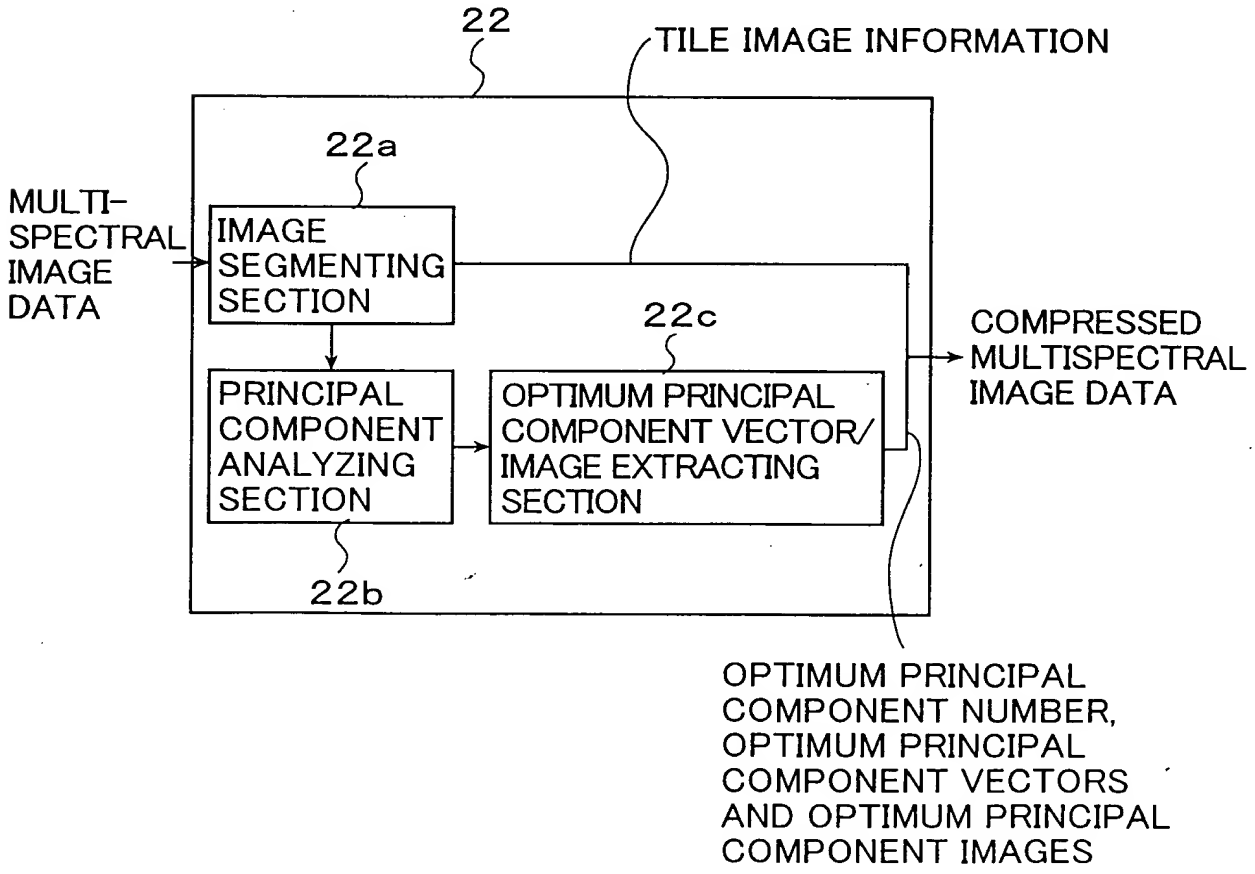
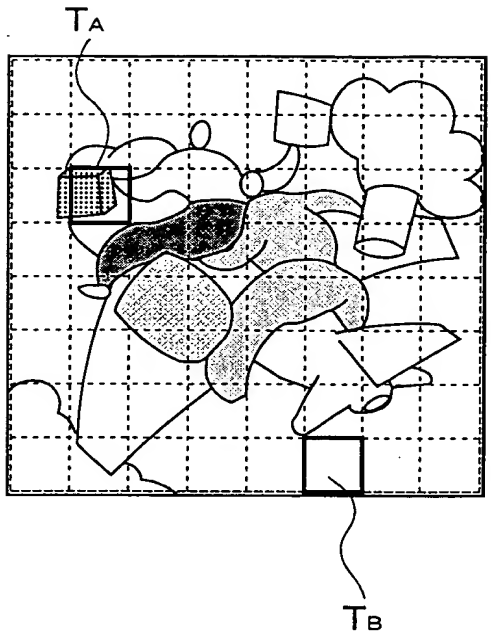
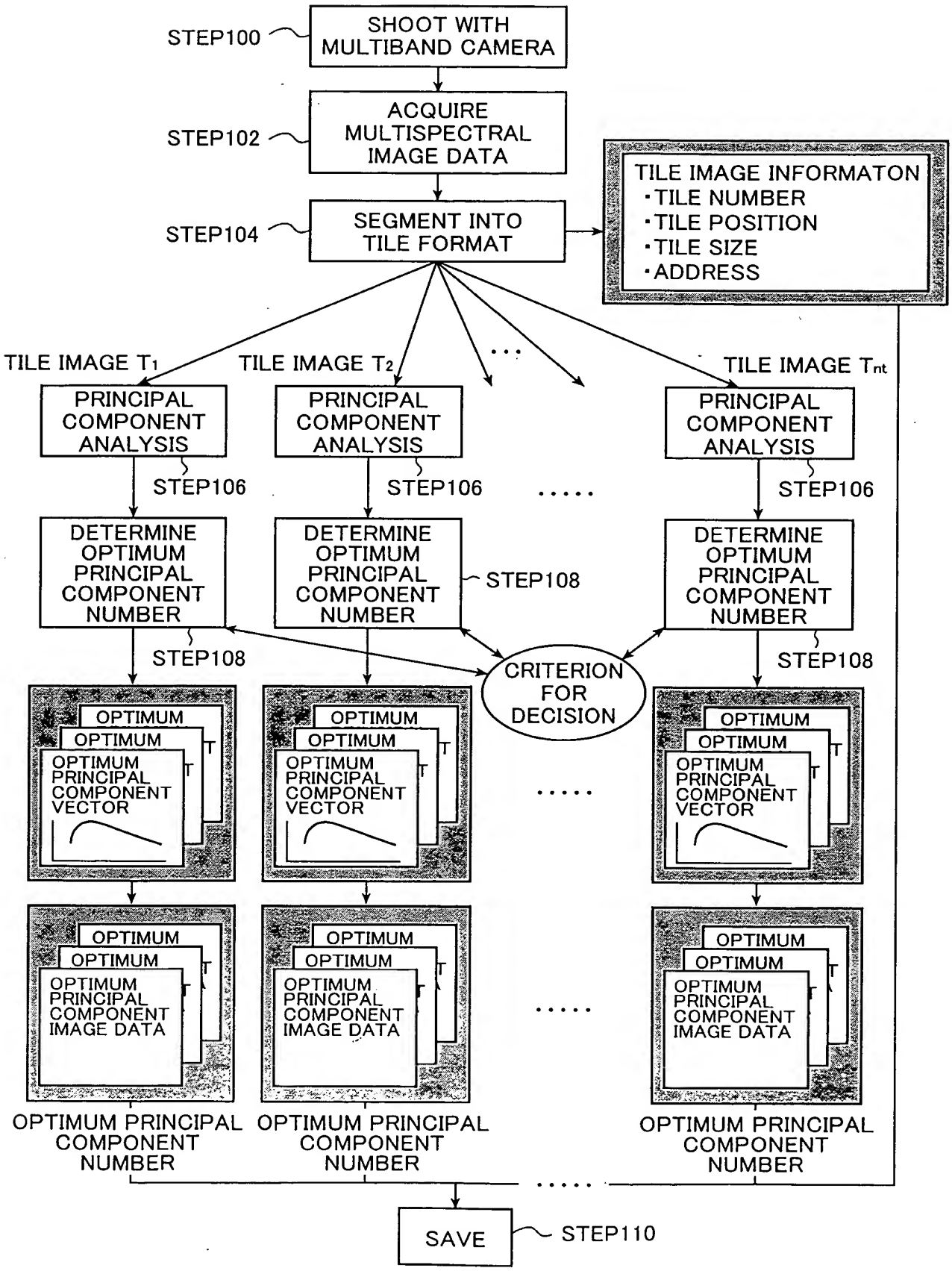

22
TILE IMAGE INFORMATION
22a
MULTI-SPECTRAL IMAGE DATA
IMAGE SEGMENTING SECTION
22c
COMPRESSED MULTISPECTRAL IMAGE DATA
PRINCIPAL COMPONENT ANALYZING SECTION
OPTIMUM PRINCIPAL COMPONENT VECTOR/ IMAGE EXTRACTING SECTION
22b
OPTIMUM PRINCIPAL COMPONENT NUMBER, OPTIMUM PRINCIPAL COMPONENT VECTORS AND OPTIMUM PRINCIPAL COMPONENT IMAGES

FIG.3



0000000 - 0000000

FIG. 4


STEP100
SHOOT WITH MULTIBAND CAMERA
STEP102
ACQUIRE MULTISPECTRAL IMAGE DATA
STEP104
SEGMENT INTO TILE FORMAT
TILE IMAGE INFORMATON
·TILE NUMBER
·TILE POSITION
·TILE SIZE
·ADDRESS
TILE IMAGE T1
TILE IMAGE T2
TILE IMAGE Tnt
PRINCIPAL COMPONENT ANALYSIS
STEP106
DETERMINE OPTIMUM PRINCIPAL COMPONENT NUMBER
STEP108
CRITERION FOR DECISION
OPTIMUM PRINCIPAL COMPONENT VECTOR
OPTIMUM PRINCIPAL COMPONENT IMAGE DATA
OPTIMUM PRINCIPAL COMPONENT NUMBER
SAVE
STEP110